PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference TCOM1008WO	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
International application No.	International filing date	(day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/US93/07060	27 JULY 1993	•	28 JULY 1992		
Applicant 3COM CORPORATION					
This international search report has be according to Article 18. A copy is being the This international search report consists	ng transmitted to the Intern	ational Bureau.	thority and is transmitted to the applicant		
X It is also accompanied by a copy of each prior art document cited in this report.					
1. Certain claims were found unsearchable (See Box I).					
2. Unity of invention is lacking (See Box II).					
3. The international application international search was carr	n contains disclosure of a ied out on the basis of the	nucleotide and/or sequence listing	amino acid sequence listing and the		
	filed with the international	application.			
	furnished by the applicant	separately from the	international application,		
			ent to the effect that it did not include matter the international application as filed.		
	transcribed by this Authori	ty.			
4. With regard to the title, X	the text is approved as sub	mitted by the applic	ant.		
□ '	the text has been established	d by this Authority	to read as follows:		
5. With regard to the abstract,					
	the text is approved as sub	mitted by the applic	ant.		
i		may, within one r	e 38.2(b), by this Authority as it appears nonth from the date of mailing of this o this Authority.		
6. The figure of the drawings to be published with the abstract is:					
Figure No. 2	as suggested by the applica	nt.	None of the figures.		
	because the applicant failed	to suggest a figure			
X t	because this figure better c	haracterizes the inve	ention.		
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INIERNATIONAL SEARCH REPORT

international application No. PCT/US93/07060

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Early initiation of transmission of data in a network interface that includes a dedicated transmit buffer (34) is provided in a system which includes logic (39) for transferring frames of data composed by the host computer (30) into the transmit buffer. The amount of data of a frame which is downloaded by the host computer to the transmit buffer is monitored to make a threshold determination of an amount of data of the frame resident in the transmit buffer. The network interface controller includes logic (36) for initiating transmission of the frame when the threshold determination indicates that a sufficient portion of the frame is resident in the transmit buffer, prior to transfer of all of the data of the frame into the transmit buffer. The network interface controller includes a threshold store (43), which is programmable by the host computer for storing the threshold value. Thus, the threshold value may be set by the host system to optimize performance in a given setting.

INTERNATIONAL SEARCH REPORT

International application No.

	PC	T/US93/0706	50			
A. CLASSIFICATION OF SUBJECT MATTER IPC(5): G06F 3/00, 11/00 US CL: 364/239.51; 371/57.1; 395/250 According to International Patent Classification (IPC) or to	both national classification and I	PC				
B. FIELDS SEARCHED						
Minimum documentation searched (classification system foll	owed by classification symbols)					
U.S. : 364/239.51, 939.81; 370/85.1, 85.15; 371/57.1;	395/250					
Documentation searched other than minimum documentation none	to the extent that such documents	are included	in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) APS search terms: underrrun, descriptor, buffer, incomplete frame						
C. DOCUMENTS CONSIDERED TO BE RELEVAN	T.		,			
Category* Citation of document, with indication, whe	re appropriate, of the relevant pa	issages	Relevant to claim No.			
	US, A, 5,043,981 (FIROOZMAND ET AL) 27 August 1991 1, 3, 6, 11 see: column 8, lines 41-44; column 10, lines 38-42, 46-52,					
Y 62-68; column 11, lines 4-7; fi		10 02,	2, 4, 5, 7-10, 12-15, 18-20			
Y US, A, 4,715,030 (KOCH ET / column 11, lines 54-65.	US, A, 4,715,030 (KOCH ET AL) 22 December 1987 see: 2, 7-9, 15 column 11, lines 54-65.					
Y US, A, 4,258,418 (HEATH) 24 column 2, lines 20-27; column lines 5-9.			4, 5, 13-15, 18- 20			
Y, P US, A, 5,195,093 (TARRAB E column 3, lines 33-46.	T AL) 16 March 199)3 see:	10, 12, 19			
X Further documents are listed in the continuation of Box C. See patent family annex.						
Special categories of cited documents: A* document defining the general state of the art which is not considered to be part of particular relevance T* later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention						
"E" earlier document published on or after the international filing date			claimed invention cannot be red to involve an inventive step			
"L" document which may throw doubts on priority claim(s) or which cited to establish the publication date of another citation or of special reason (as specified)	her "Y" when the document is document of particular	taken alone ir relevance; the	claimed invention cannot be			
document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents; such combination being obvious to a person skilled in the art						
P° document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed						
Date of the actual completion of the international search Date of mailing of the international search report						
12 November 1993	07 DEC	1993				
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks	Commissioner of Patents and Trademarks					
Box PCT Washington D.C. 20231	STEPHEN M. BAKER	$\mathcal{L}(\mathcal{A})$	ander			

Form PCT/ISA/210 (second sheet)(July 1992)*

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IN ERNATIONAL SEARCH REPORT

International apparation No. PCT/US93/07060

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the relevan	nt passages Relevant to claim No				
Y, P	US, A, 5,210,749 (FIROOZMAND) 11 May 1993 see: 14, lines 56-63; column 18, lines 22-26.	column 13-15, 18-20				
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